

<b>UTILITY PATENT APPLICATION TRANSMITTAL</b>  (Only for new nonprovisional applications under 37 CFR 1.53(b))	Attorney Docket No.	CIT 2606 CIP CON
	First Inventor	Jeffrey Hubbell
	Title	Enzyme-Mediated Modification of Fibrin for Tissue Engineering
	Express Mail Label No.	EL 717 747 119 US

<b>APPLICATION ELEMENTS</b> See MPEP chapter 600 concerning utility patent application contents.	<b>ADDRESS TO:</b> Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria VA 22313-1450
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1. ☒ Fee Transmittal Form (e.g., PTO/SB/17)  
(Submit an original and a duplicate for fee processing)
2. ☐ Applicant claims small entity status.  
See 37 CFR 1.27.
3. ☒ Specification [Total Pages 40]  
(preferred arrangement set forth below)
  - Descriptive title of the invention
  - Cross Reference to Related Applications
  - Statement Regarding Fed sponsored R & D
  - Reference to sequence listing, a table, or a computer program listing appendix
  - Background of the Invention
  - Brief Summary of the Invention
  - Brief Description of the Drawings (if filed)
  - Detailed Description
  - Claim(s)
  - Abstract of the Disclosure
4. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets 5]
5. Oath or Declaration [Total Sheets 3]
  - a. ☐ Newly executed (original or copy)
  - b. ☒ Copy from a prior application (37 CFR 1.63(d))  
(for continuation/divisional with Box 18 completed)
    - i. ☐ **DELETION OF INVENTOR(S)**  
Signed statement attached deleting inventor(s) name in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
6. ☒ Application Data Sheet. See 37 CFR 1.76

7. ☐ CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission  
(if applicable, all necessary)
  - a. ☒ Computer Readable Form (CRF)
  - b. Specification Sequence Listing on:
    - i. ☐ CD-ROM or CD-R (2 copies); or
    - ii. ☒ Paper
  - c. ☒ Statements verifying identity of above copies

#### ACCOMPANYING APPLICATION PARTS

9. ☒ Assignment Papers (cover sheet & document(s))
10. ☒ 37 CFR 3.73(b) Statement ☒ Power of Attorney  
(when there is an assignee)
11. ☐ English Translation Document (if applicable)
12. ☒ Information Disclosure Statement (IDS)/PTO-1449 ☐ Copies of IDS Citations
13. ☒ Preliminary Amendment
14. ☒ Return Receipt Postcard (MPEP 503)  
(Should be specifically itemized)
15. ☐ Certified Copy of Priority Document(s)  
(if foreign priority is claimed)
16. ☐ Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.
17. ☒ Other: Items 9 & 10 are copies from prior application No. 10/024,918

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76:

☒ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: 10/024,918

Prior application information: Examiner Leon B. Lankford, Jr. Art Unit: 1651  
For CONTINUATION OF DIVISIONAL APPS only; The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

#### 19. CORRESPONDENCE ADDRESS

<input checked="" type="checkbox"/> Customer Number:	<u>23579</u>	OR <input type="checkbox"/> Correspondence address below	
Name	Patrea L. Pabst, Holland & Knight LLP		
Address	2000 One Atlantic Center		
	1201 West Peachtree Street		
City	Atlanta	State	GA
Country	United States of America	Zip Code	30309-3400
	Telephone	(404) 817-8473	Fax (404) 817-8588
Name (Print/Type)	Patrea L. Pabst, Esq.	Registration No. (Attorney/Agent)	31,284
Signature			Date August 27, 2003

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.  
If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

# FEE TRANSMITTAL for FY 2003

Effective 01/01/2003. Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ ) 1,104.00

## Complete if Known

Application Number Continuation of 10/124,918  
Filing Date August 27, 2003  
First Named Inventor Jeffrey Hubbell  
Examiner Name  
Art Unit  
Attorney Docket No. CIT 2606 CIP CON

## METHOD OF PAYMENT (check all that apply)

☒ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None

☒ Deposit Account:

Deposit  
Account  
Number  
Deposit  
Account  
Name

50-1868

Holland & Knight LLP

The Director is authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☒ Credit any overpayments

☒ Charge any additional fee(s) during the pendency of this application

☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

## FEE CALCULATION

### 1. BASIC FILING FEE

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1001	750	2001	375	Utility filing fee	750.00
1002	330	2002	165	Design filing fee	
1003	520	2003	260	Plant filing fee	
1004	750	2004	375	Reissue filing fee	
1005	160	2005	80	Provisional filing fee	
SUBTOTAL (1)					(\$ ) 750.00

### 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims	Extra Claims	Fee from below	Fee Paid
35	-20** = 15	x 18.00 =	270.00
Independent Claims	4	-3** = 1	x 84.00 = 84.00
Multiple Dependent		0	= 0.00

Large Entity		Small Entity		Fee Description
Fee Code	Fee (\$)	Fee Code	Fee (\$)	
1202	18	2202	9	Claims in excess of 20
1201	84	2201	42	Independent claims in excess of 3
1203	280	2203	140	Multiple dependent claim, if not paid
1204	84	2204	42	** Reissue independent claims over original patent
1205	18	2205	9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$ ) 354.00

\*\*or number previously paid, if greater; For Reissues, see above

## FEE CALCULATION (continued)

### 3. ADDITIONAL FEES

Large Entity Small Entity

Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid
1051	130	2051	65	Surcharge - late filing fee or oath	
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	
1053	130	1053	130	Non-English specification	
1812	2,520	1812	2,520	For filing a request for ex parte reexamination	
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
1251	110	2251	55	Extension for reply within first month	
1252	410	2252	205	Extension for reply within second month	
1253	930	2253	465	Extension for reply within third month	
1254	1,450	2254	725	Extension for reply within fourth month	
1255	1,970	2255	985	Extension for reply within fifth month	
1401	320	2401	160	Notice of Appeal	
1402	320	2402	160	Filing a brief in support of an appeal	
1403	280	2403	140	Request for oral hearing	
1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1452	110	2452	55	Petition to revive - unavoidable	
1453	1,300	2453	650	Petition to revive - unintentional	
1501	1,300	2501	650	Utility issue fee (or reissue)	
1502	470	2502	235	Design issue fee	
1503	630	2503	315	Plant issue fee	
1460	130	1460	130	Petitions to the Commissioner	
1807	50	1807	50	Processing fee under 37 CFR 1.17(q)	
1806	180	1806	180	Submission of Information Disclosure Stmt	
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	
1809	750	2809	375	Filing a submission after final rejection (37 CFR 1.129(a))	
1810	750	2810	375	For each additional invention to be examined (37 CFR 1.129(b))	
1801	750	2801	375	Request for Continued Examination (RCE)	
1802	900	1802	900	Request for expedited examination of a design application	

Other fee (specify)

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$ ) 0.00

## SUBMITTED BY

Name (Print/Type) Patrea X Pabst, Esq.

Registration No.  
(Attorney/Agent)

31,284

(Complete if applicable)

Telephone (404) 817-8473

Signature

Date

August 27, 2003

**WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

CIT 2606 CIP CON - 077043/00009

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicants: Jeffrey Hubbell, Jason Schense, Andreas Zisch, and Heike Hall

Serial No.: Continuation of 10/024,918

Express Mail Label  
No. EL 717 747 119 US

Filed: August 27, 2003

Date of Deposit: August 27, 2003

For: *ENZYME-MEDIATED MODIFICATION OF FIBRIN  
FOR TISSUE ENGINEERING*

Mail Stop Patent Application  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**REQUEST FOR FILING A CONTINUATION APPLICATION  
UNDER 37 C.F.R. § 1.53(b)**

Sir:

Pursuant to 35 U.S.C. § 21(a), as amended by Public Law 97-247, and 37 C.F.R. §§ 1.10 and 1.53(b), Applicants enclose for filing the attached new patent application entitled "*Enzyme-Mediated Modification of Fibrin For Tissue Engineering*". This application is a continuation of pending prior application Serial No. 10/024,918 filed December 18, 2001, entitled "*Enzyme-Mediated Modification of Fibrin For Tissue Engineering*", by Jeffrey Hubbell, Jason Schense, Andreas Zisch, and Heike Hall, which is a continuation-in-part of U.S. Serial No. 09/057,052 filed April 8, 1998, now U.S. Patent No. 6,331,422, which is a continuation of International Application No. PCT/US98/06617, filed April 2, 1998, which claims priority to U.S. Provisional Application Serial No. 60/042,143, filed April 3, 1997. The application

Continuation of U.S.S.N. 10/024,918  
Filed: August 27, 2003  
**REQUEST FOR FILING A CONTINUATION  
APPLICATION UNDER 37 C.F.R. § 1.53(b)**  
Express Mail Label No.: EL 717 747 119 US  
Date of Deposit: August 27, 2003

includes 1 page of abstract, 37 pages of specification, 2 pages of claims, 5 sheets of formal drawings, and a copy of the executed Declaration for Patent Application from prior application Serial No. 10/024,918.

Pursuant to 37 C.F.R. § 1.63(d), the copy of the executed Declaration for Patent Application included in the new application is a copy of the executed Declaration filed in parent application Serial No. 10/024,918, to which the new application claims benefit.

The inventorship for the claims in the new application is the same as in parent application Serial No. 10/024,918.

Enclosed are a Preliminary Amendment and an Information Disclosure Statement. Please amend the application in accordance with the Preliminary Amendment.

This application contains nucleic acid and/or protein sequences as defined in 37 C.F.R. § 1.821-1.825, and Applicants enclose a 3½" diskette containing a computer-readable form of the Sequence Listing for the above-identified application. A paper copy of the Sequence Listing is incorporated into the application. The sequence listing for the new application is nearly identical to the sequence listing for Serial No. 10/024,918 filed December 18, 2001, except for correction of minor errors which are clearly clerical in nature and in no way add to or change the subject matter of this application.

I declare that the material on the enclosed diskette is identical to the paper copy of the Sequence Listing present in the new application, that the Sequence Listing does not add new matter to the application, and that all statements made on information and belief are believed to

Continuation of U.S.S.N. 10/024,918  
Filed: August 27, 2003  
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**APPLICATION UNDER 37 C.F.R. § 1.53(b)**  
Express Mail Label No.: EL 717 747 119 US  
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be true and further that these statements were made with the knowledge that willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Enclosed from prior application Serial No. 10/024,918 are copies of the (a) Power of Attorney by Assignee of Entire Interest and Revocation of Prior Powers ; (b) Statement Under 37 CFR §3.73(b); and (c) Recorded Assignment of rights from Jeffrey Hubbell, Jason Schense, Andreas Zisch, and Heike Hall to California Institute of Technology.

Also enclosed are an (a) Application Data Sheet; (b) Utility Patent Application Transmittal; and (c) Fee Transmittal (in duplicate).

This application is not entitled to claim small entity status pursuant to 37 C.F.R. § 1.27.

Enclosed is a check in the amount of \$1,104.00 to cover the filing fee for a large entity. It is believed that this is the proper filing fee since the application includes 4 independent claims and a total of 35 claims upon entry of the enclosed Preliminary Amendment.

The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 50-1868. To facilitate this process, Applicants enclose a duplicate of this transmittal.

The power of attorney in the prior application is to Patrea L. Pabst.

All correspondence concerning this application should be mailed to:

Customer No. 23579  
Patrea L. Pabst, Esq.  
HOLLAND & KNIGHT LLP  
2000 One Atlantic Center  
1201 West Peachtree Street, N.E.  
Atlanta, GA 30309-3400

Continuation of U.S.S.N. 10/024,918  
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**REQUEST FOR FILING A CONTINUATION**  
**APPLICATION UNDER 37 C.F.R. § 1.53(b)**  
Express Mail Label No.: EL 717 747 119 US  
Date of Deposit: August 27, 2003

This application is being filed on August 27, 2003, by mailing the application to  
Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA  
22313-1450 via the United States Postal Service "Express Mail Post Office to Addressee"  
Service under 37 C.F.R. § 1.10. The Express Mail Label number appears in the heading of this  
paper which is attached to the application papers pursuant to 37 C.F.R. § 1.10(b).

Respectfully submitted,



Patrea L. Pabst  
Reg. No. 31,284

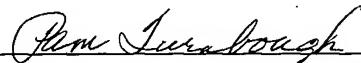
Date: August 27, 2003

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Continuation of U.S.S.N. 10/024,918  
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**REQUEST FOR FILING A CONTINUATION  
APPLICATION UNDER 37 C.F.R. § 1.53(b)**  
Express Mail Label No.: EL 717 747 119 US  
Date of Deposit: August 27, 2003

**CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.10**

I hereby certify that this paper and any documents referred to as attached or enclosed are being deposited with the United States Postal Service on this date, August 27, 2003, in an envelope as "Express Mail Post Office to Addressee" service under 37 C.F.R. § 1.10, Express Mail Label No. EL 717 747 119 US, addressed to Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

  
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Pam Turnbough

Date: August 27, 2003

ATL1 #591179 v1